EP 2 280 494 A2

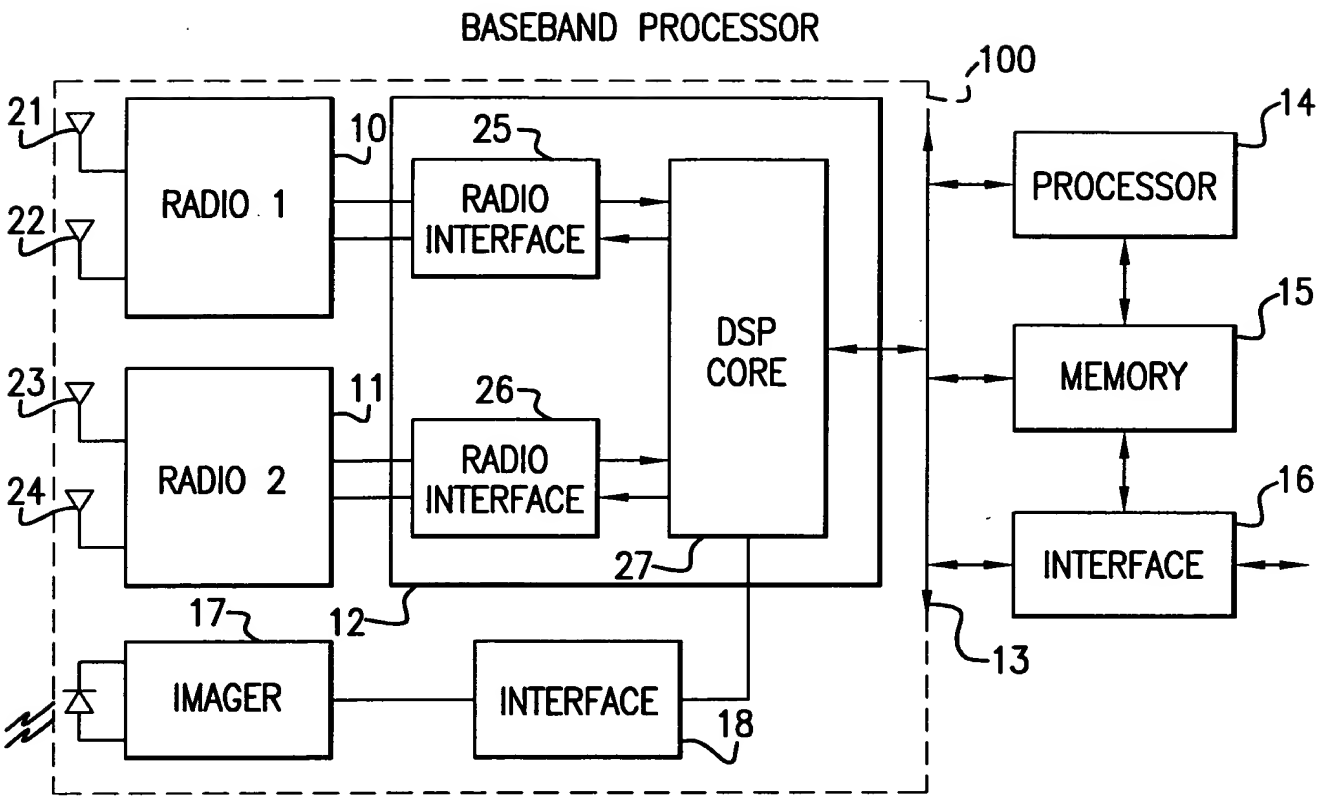

FIG.1

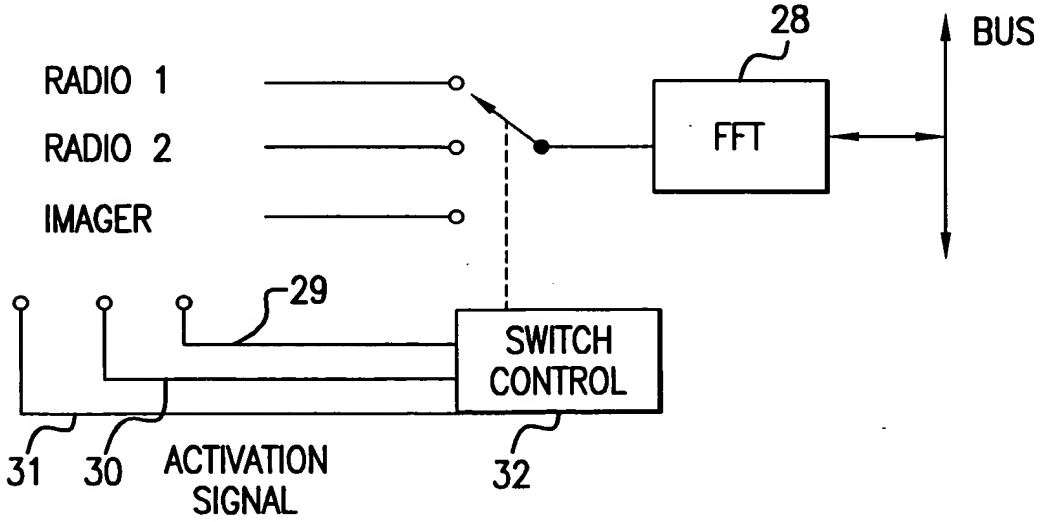

FIG.2

EP 0 950 994 A2

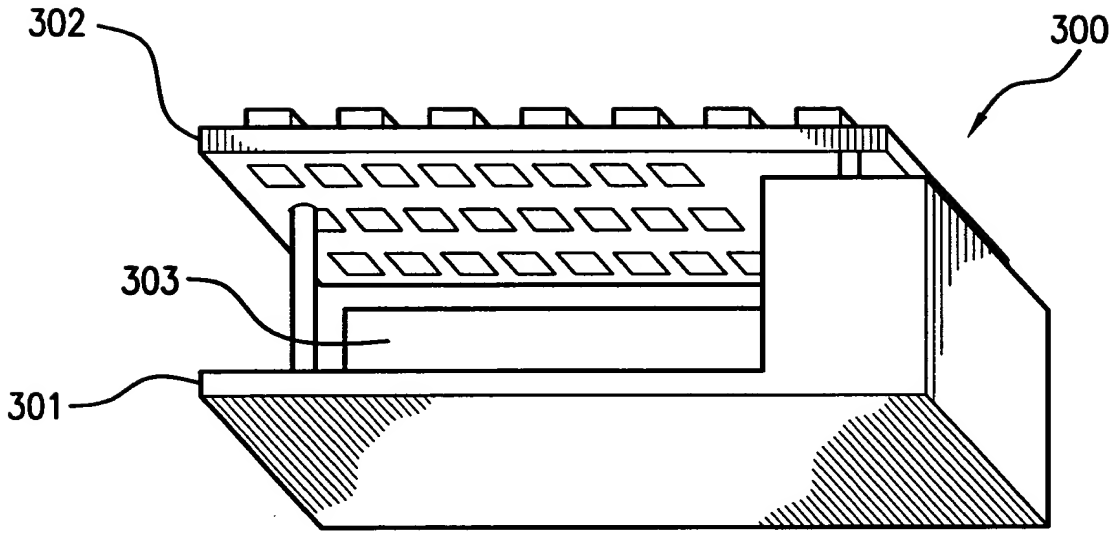

FIG.3

T07280"T9865660

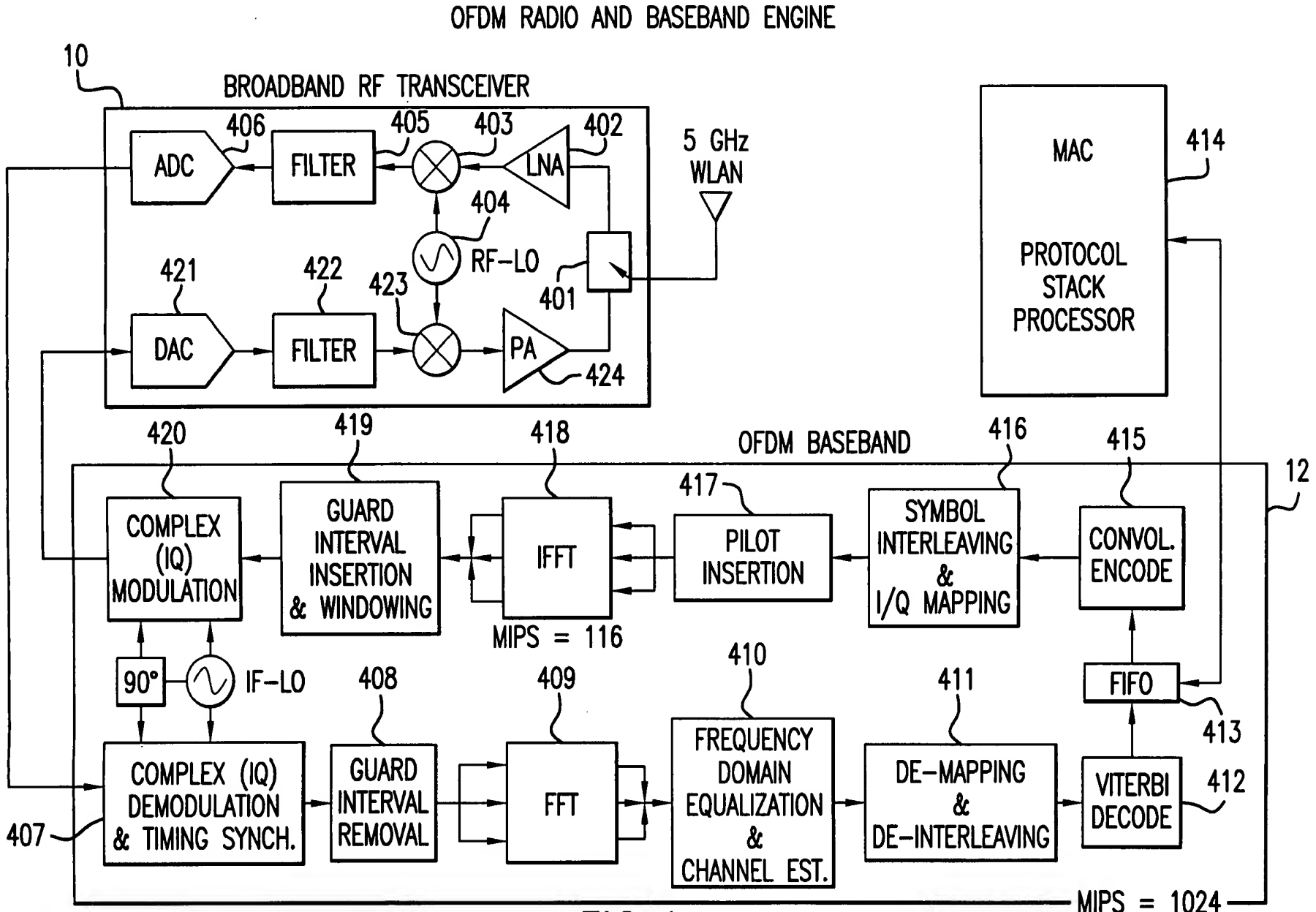

FIG.4

TD7280" T9836690

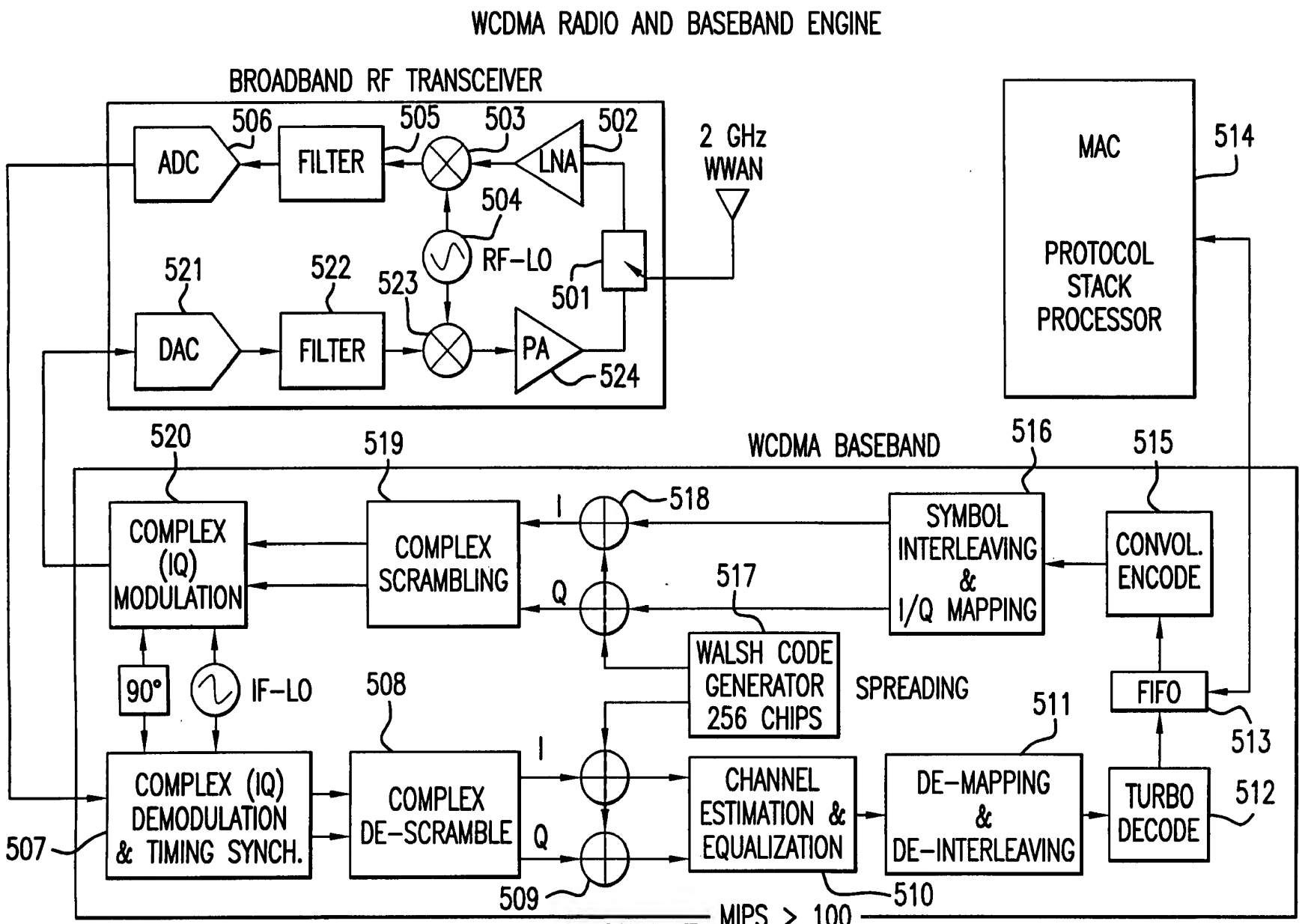

FIG.5

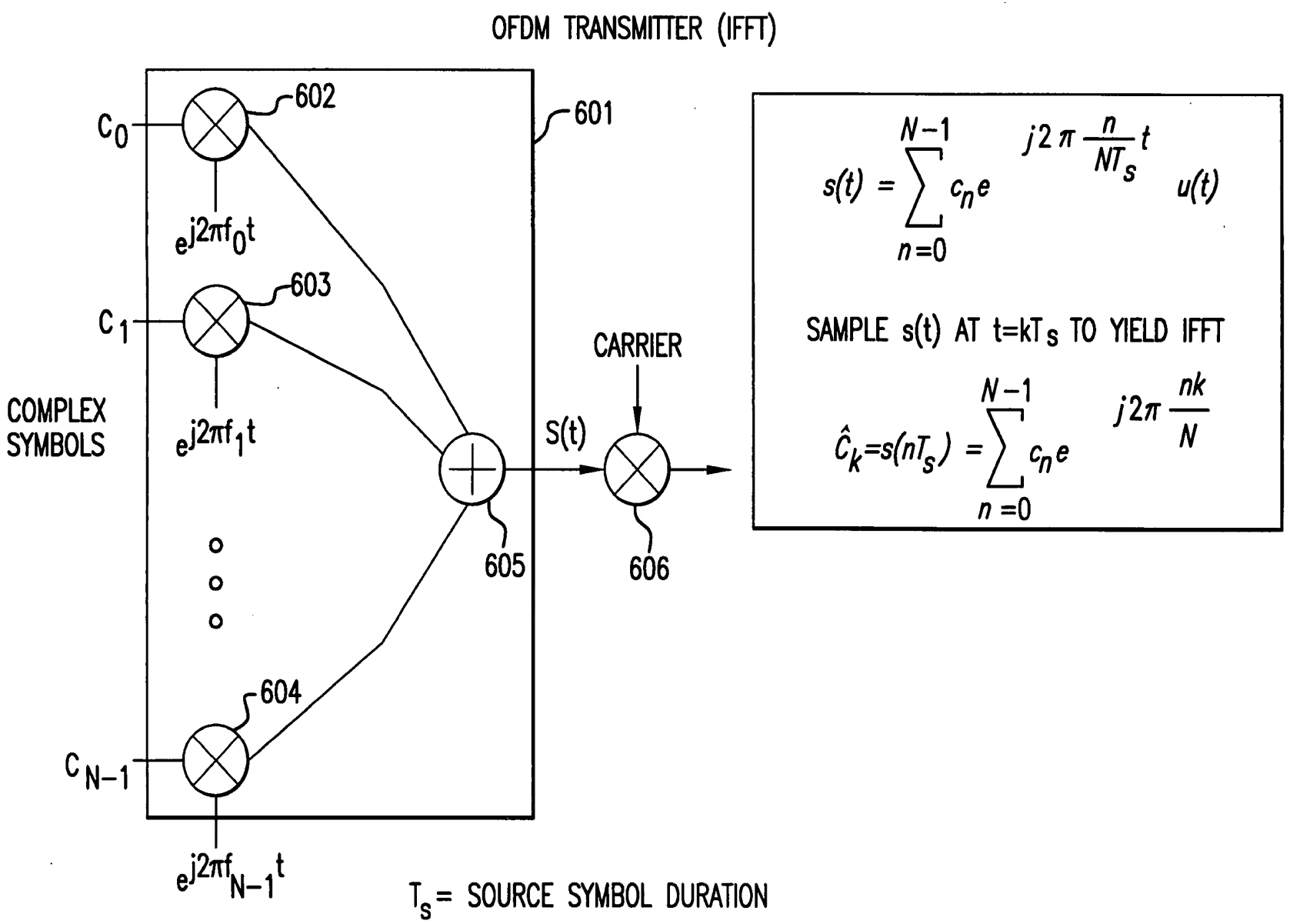
OFDM TRANSMITTER (IFFT)
C_0
C_1
C_{N-1}
COMPLEX SYMBOLS
$e^{j2\pi f_0 t}$
$e^{j2\pi f_1 t}$
$e^{j2\pi f_{N-1} t}$
602
603
604
601
605
606
S(t)
CARRIER
$s(t) = \sum_{n=0}^{N-1} c_n e^{j2\pi \frac{n}{NT_s} t} u(t)$
SAMPLE s(t) AT $t=kT_s$ TO YIELD IFFT
$\hat{C}_k = s(nT_s) = \sum_{n=0}^{N-1} c_n e^{j2\pi \frac{nk}{N}}$
T_s = SOURCE SYMBOL DURATION

FIG.6

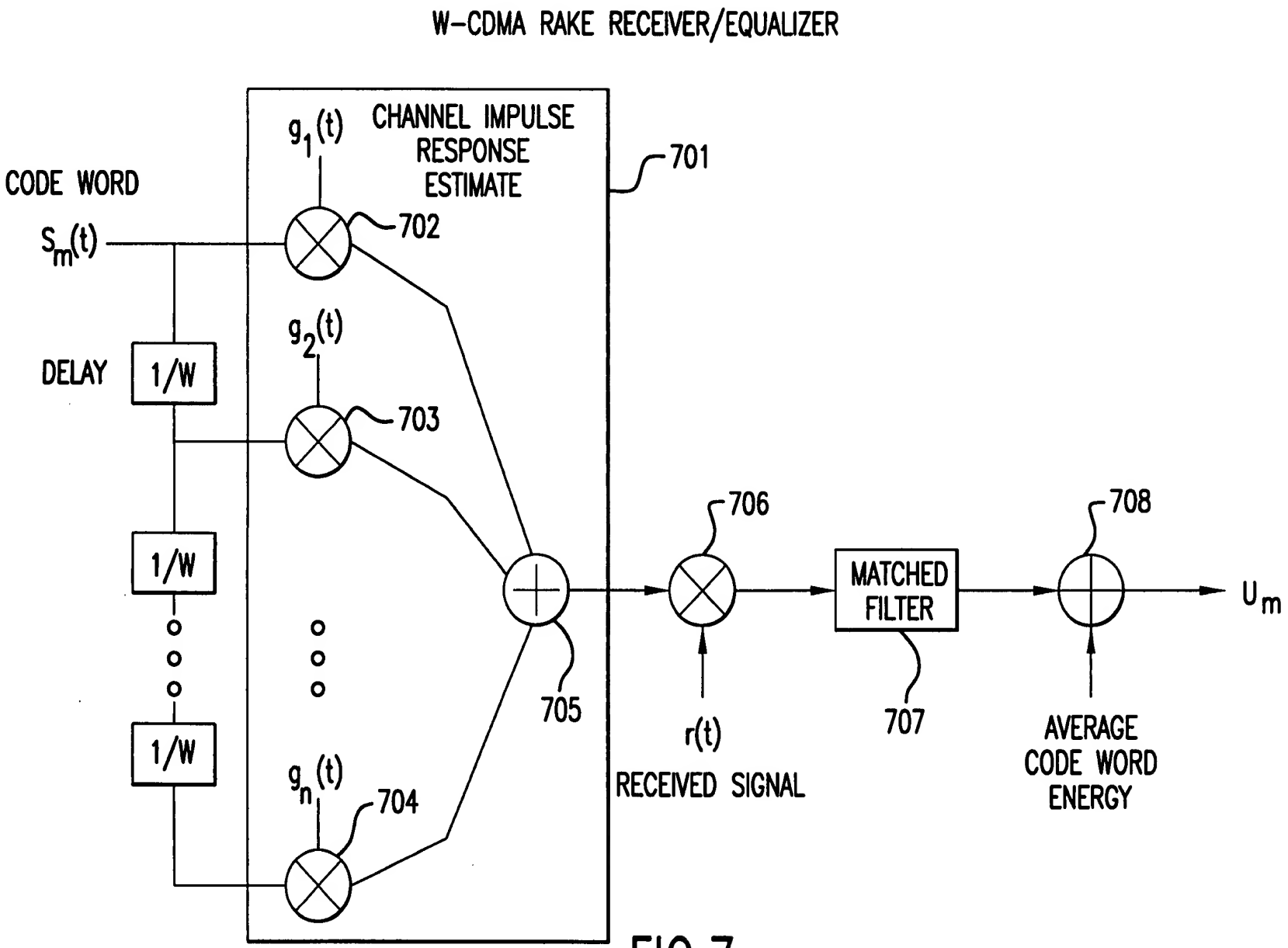
W-CDMA RAKE RECEIVER/EQUALIZER
CODE WORD
$S_m(t)$
DELAY
1/W
1/W
1/W
$g_1(t)$
CHANNEL IMPULSE RESPONSE ESTIMATE
701
702
$g_2(t)$
703
$g_n(t)$
704
705
706
r(t)
RECEIVED SIGNAL
MATCHED FILTER
707
708
AVERAGE CODE WORD ENERGY
U_m

FIG.7